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NOTICE OF ALLOWANCE AND FEE(S) DUE

22203

7590

06/11/2002

MARK KUSNER COMPANY LPA HIGHLAND PLACE SUITE 310 6151 WILSON MILLS ROAD HIGHLAND HEIGHTS, OH 44143 EXAMINER

VORTMAN, ANATOLY

ART UNIT CLASS-SUBCLASS

2835 337-243000

DATE MAILED: 06/11/2002

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- 1	APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
ι	09/724.154	11/28/2000	Jerry L. Mosesian	FS7230US	7465	

TITLE OF INVENTION: ELECTRICAL FUSE WITH INDICATOR

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1280	\$0	\$1280	09/11/2002

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. <u>PROSECUTION ON THE MERITS IS CLOSED</u>. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above. If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

B. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

If the SMALL ENTITY is shown as NO:

- A. Pay TOTAL FEE(S) DUE shown above, or
- B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.
 - □ Applicant claims SMALL ENTITY status. See 37 CFR 1.27.

II. PART B - FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B - Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Box ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Box ISSUE FEE

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INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 4 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

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CURRENT CORRESPONDENCE ADDRESS (Note: Legibly mark-up with any corrections or use Block I)

22203

MARK KUSNER COMPANY LPA **HIGHLAND PLACE SUITE 310** 6151 WILSON MILLS ROAD HIGHLAND HEIGHTS, OH 44143

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional papers, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Box Issue Fee address above, or being facsimile transmitted to the USPTO, on the date indicated below.

(Depositor's name)
(Signature)
(Date

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nonprovisional	NO	\$1280	\$0	\$1280	09/11/2002	
EXAMI	NER	ART UNIT	CLASS-SUBCLASS			
VORTMAN, A	ANATOLY	2835	337-243000			
CFR 1.363).	nce address or indication of ence address (or Change of		2. For printing on the patent front page, list (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single firm (having as a member a registered			
□ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47) attached. Use of a Customer Number is required.			attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.			

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. Inclusion of assignee data is only appropriate when an assignment has been previously submitted to the USPTO or is being submitted under separate cover. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category or	categories (will not be printed on the patent)	☐ individual	☐ corporation or other private group entit	ty 🖸 government			
4a. The following fee(s) are enclosed:	4b. Payment of Fee(s):						
☐ Issue Fee	☐ A check in the amoun	t of the fee(s) is en	closed.				
□ Publication Fee	Payment by credit car	☐ Payment by credit card. Form PTO-2038 is attached.					
☐ Advance Order - # of Copies	☐ The Commissioner is Deposit Account Number	hereby authorized	by charge the required fee(s), or credit any(enclose an extra copy of this form).	overpayment, to			
Commissioner for Patents is requested to apply the	ne Issue Fee and Publication Fee (if any) or to re	e-apply any previo	ously paid issue fee to the application identi	fied above.			
(Authorized Signature)	(Date)						
NOTE; The Issue Fee and Publication Fee (if other than the applicant; a registered attorney interest as shown by the records of the United S	Frequired) will not be accepted from anyone or agent; or the assignee or other party in tates Patent and Trademark Office.						
This collection of information is required by 3 obtain or retain a benefit by the public which application. Confidentiality is governed by 35 testimated to take 12 minutes to complete, inch completed application form to the USPTO. T case. Any comments on the amount of time suggestions for reducing this burden, should be patent and Trademark Office, U.S. Department NOT SEND FEES OR COMPLETED FO Commissioner for Patents, Washington, DC 202	is to file (and by the USP10 to process) an JS.C. 122 and 37 CFR 1.14. This collection is ading gathering, preparing, and submitting the ime will vary depending upon the individual e you require to complete this form and/or se sent to the Chief Information Officer, U.S. to f Commerce, Washington, D.C. 20231. DO DRMS TO THIS ADDRESS. SEND TO:						
Under the Paperwork Reduction Act of 199 collection of information unless it displays a value.	5, no persons are required to respond to a lid OMB control number.			•			



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	MARK KUSNER COMPANY LPA		VORTMAN, ANATOLY		
HIGHLAND PLACE SUITE 310 6151 WILSON MILLS ROAD			ART UNIT	PAPER NUMBER	
HIGHLAND HE	IGHTS, OH 44143		2835	9	
		DA	TE MAILED: 06/11/2002	/	

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b) (application filed on or after May 29, 2000)

The patent term adjustment to date is 134 days. If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the term adjustment will be 134 days.

If a continued prosecution application (CPA) was filed in the above-identified application, the filing date that determines patent term adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system. (http://pair.uspto.gov)

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	Application I	No.	Applicant(s)	
Notice of Allowability	09/724,154 Examiner		MOSESIAN ET AL. Art Unit	
			Artonic	
	Anatoly Vorti	man	2835	
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS Is herewith (or previously mailed), a Notice of Allowance (PTOL-88 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT In of the Office or upon petition by the applicant. See 37 CFR 1.37	S (OR REMAINS 5) or other appro RIGHTS. This a	CLOSED in this ap priate communication pplication is subject t	pplication. If not includ n will be mailed in due	ed course. THIS
1. Mark This communication is responsive to <u>application filed on</u>	<u>11/28/00</u> .			
2. The allowed claim(s) is/are <u>1-15</u> .				
3. The drawings filed on <u>28 November 2000</u> are accepted by the state of the state	•	440() ()) (0)		
 4. ☐ Acknowledgment is made of a claim for foreign priority una) ☐ All b) ☐ Some* c) ☐ None of the: 	nder 35 U.S.C. §	119(a)-(d) or (t).		
 Certified copies of the priority documents have 	ve been received	l.		
Certified copies of the priority documents have	ve been received	I in Application No	·	
Copies of the certified copies of the priority d	locuments have l	been received in this	national stage applica	ation from the
International Bureau (PCT Rule 17.2(a)).				
* Certified copies not received:				
5. Acknowledgment is made of a claim for domestic priority			ional application).	
(a) The translation of the foreign language provisional				
6. Acknowledgment is made of a claim for domestic priority	under 35 U.S.C.	§§ 120 and/or 121.		
Applicant has THREE MONTHS FROM THE "MAILING DATE" below. Failure to timely comply will result in ABANDONMENT of	of this application	. THIS THREE-MO	NTH PERIOD IS NOT	EXTENDABLE.
7. A SUBSTITUTE OATH OR DECLARATION must be sub INFORMAL PATENT APPLICATION (PTO-152) which gives rea				NOTICE OF
8. CORRECTED DRAWINGS must be submitted.				
(a) including changes required by the Notice of Draftspe	erson's Patent Di	rawing Review (PTC)-948) attached	
1) ☐ hereto or 2) ☐ to Paper No				
(b) including changes required by the proposed drawing	correction filed	, which has t	een approved by the	Examiner.
(c) including changes required by the attached Examine	er's Amendment	/ Comment or in the	Office action of Paper	No
Identifying indicia such as the application number (see 37 CFR of each sheet. The drawings should be filed as a separate pap				
9. DEPOSIT OF and/or INFORMATION about the dep attached Examiner's comment regarding REQUIREMENT FOR				Note the
Attachment(s)				
 1⊠ Notice of References Cited (PTO-892) 3□ Notice of Draftperson's Patent Drawing Review (PTO-948) 5⊠ Information Disclosure Statements (PTO-1449), Paper No. 7□ Examiner's Comment Regarding Requirement for Deposit of Biological Material 	<u>2, 3</u> .	4⊠ Interview Summ 6⊠ Examiner's Ame	nal Patent Application on nary (PTO-413), Paper endment/Comment ement of Reasons for	r No. <u>7</u> .

U.S. Patent and Trademark Office PTO-37 (Rev. 04-01) Application/Control Number: 09/724,154

Art Unit: 2835

EXAMINER'S AMENDMENT

1. An Examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to Applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. Mark Kusner, Reg. No. 31,115 on 03/01/20002.

The application has been amended as follows:

Claim 12, line 4 of the claim, please replace [reduced cross-sectional area] with -- increased resistance--.

Claim 13, first line of the claim, following "region", please insert --of increased resistance--.

2. The following is an Examiner's statement of reasons for allowance:

The allowability resides in the overall structure of the device as claimed at least in independent claims 1, 10, and 14, and at least in part, because of the following:

US/5,994,993 to Castonguay (submitted with IDS) is believed to be closest to the device structure of the present invention as claimed in independent claim 14. Castonguay disclosed (Fig. 4 and 6-9) an electric fuse, comprised of:

a tubular fuse casing (30) formed of electrically insulating material;

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a first conductive component (32) attached to a first end of said casing (30); a second conductive component (32) attached to a second end of said casing (30);

a fusible element within said casing (30) (column 2, line 36) electrically connected to said first and second conductive components (32), said first fusible element having a first resistance; an indicator (Fig. 6-9) on said casing (30), said indicator, comprised of:

a first layer (50) comprised of a non-flammable material; and a second layer (52) comprised of conductive material deposited on said first layer (50), (column 4, lines 40+), said second layer (52) having a gap (58), said indicator mounted to said casing (30) with said second layer (52) electrically connected to said first and second conductive elements (32) in parallel with said fusible element and with said first layer (50) between said second layer (52) and said casing (30); and a third layer (56) of clear polymeric material covering said indicator, but did not disclose that said second layer having an area of reduced thickness and a predetermined resistance greater than the resistance of said fusible element, wherein said area of reduced thickness is visible through said third layer, as claimed in claim14. Castonguay is teaching away from the present invention, since it teaches a gap (58) in said second layer (52), thus departing from operating principles of the instant invention, which require a continuous conductive second layer.

US/809,978 to Ogle is believed to be closest to the device structure of the present invention as claimed in independent claims 1 and 10. Ogle disclosed (Fig. 1, 3, 5, and 6) an electric fuse, comprised of:

a tubular fuse casing (2) formed of electrically insulating material; a first conductive component (3) attached to a first end of said casing (2); a second conductive component (3) attached to a second end of said casing (2); Application/Control Number: 09/724,154

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a first conductive path formed by a fusible element (4) within said casing (3) electrically connected to said first and second conductive components (3), said first conductive path having a first resistance; and

a second conductive path (5, 7) extending along the exterior of said tubular fuse casing (2), said conductive path being in parallel to said first conductive path (4), and having a second resistance greater than said first resistance and including an indicator component (Fig. 6), said indicator component comprising of:

a first layer (9) providing a visual indication of color; a wire filament (7) disposed under said first layer (9);

a cavity (8) located above said first layer (9) and said wire filament (7);

and a third layer (10) comprised of transparent material covering said cavity (8), said first layer (9) and said filament (7), but did not disclose a second conductive layer including at least one metal layer on said first layer and having a region of increased resistance, as claimed in claims 1 and 10.

The following prior art made of record is considered pertinent to Applicant's disclosure: US/6292087, 1087120, 2175250, 737368, 792530, 737369, 737280, 1014741, 1040150, 737281, EP/0213404, and DE/3332839 disclosed fuses comprising fuse state indicators.

The recitations of independent claims 1, 10, and 14 discussed above, in combination with the remaining limitations of the claims are believed to render said claims patentable over the art of record.

None of the cited references either taken alone or in combination, is believed to render the present invention unpatentable as claimed.

Art Unit: 2835

Conclusion

3. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Anatoly Vortman whose telephone number is 703-308-7824. The examiner can normally be reached on 9:30-6:00, Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mr. Darren Schuberg can be reached on 703-308-4815. The fax phone numbers for the organization where this application or proceeding is assigned are 703-305-3431 for regular communications and 703-305-3432 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-1782.

Anatoly Vortman Examiner Art Unit 2835

A.V. March 1, 2002 A Valer